

IN THE CLAIMS:

1. (Currently amended) A method in a node for managing attempts to access the node, the method comprising:

receiving, by the node, a packet from a source, wherein the packet includes a first key, wherein the first key is a partition key associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node receiving the packet can determine which of the partitions of the multi-partitioned network can access the node receiving the packet;

determining, by the node, whether the packet is from a partition authorized to access the node by determining whether the first key matches a second key for the node;

dropping, by the node, the packet without a response to the source of the packet if the first key does not match the second key;

storing, by the node, information from the packet; and

sending, by the node, the information to a selected recipient in response to a selected event.

2. (Original) The method of claim 1, wherein the selected event is a request from the recipient for the information.

3. (Original) The method of claim 1, wherein the selected event is an occurrence of a trap.

4. (Original) The method of claim 1, wherein the selected event is a periodic event.

5. (Original) The method of claim 1 further comprising:
incrementing a counter source if the first key does not match the second key.

6. (Previously presented) The method of claim 5, wherein the selected event occurs when the counter exceeds a threshold value.

7. (Previously presented) The method of claim 1, wherein the node comprises at least one device private to the node and at least one device shared with at least one of the partitions of the multi-partition network.
8. (Original) The method of claim 1, wherein the information includes at least one of a source local identifier, a destination local identifier, the key value, a global identifier address.
9. (Previously presented) The method of claim 7, wherein the selected recipient is a subnet manager attached to a subnet that is responsible for configuring and managing switches, routers and channel adapters of the subnet.
10. (Currently amended) A method in a node for reporting access violations, the method comprising:
- receiving a packet from a source, wherein the packet includes authentication information, wherein the authentication information is associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node that received the packet can determine which of the partitions of the multi-partitioned network can access the node that received the packet;
 - verifying the received authentication information to determine if the packet is from a partition authorized to access the node;
 - dropping the packet without a response to the source if the received authentication information is unverified;
 - storing information from the packet; and
 - sending the information to a selected recipient in response to a selected event.
11. (Previously presented) The method of claim 10, wherein the node comprises at least one device private to the node and at least one device shared with at least one of the partitions of the multi-partition network.
12. (Currently amended) A data processing system comprising:
- a bus system;

a channel adapter unit connected to a system area network fabric;
a memory connected to the bus system, wherein the memory includes a set of instructions; and

a processing unit connected to the bus system, wherein the processing unit executes the set of instructions to receive a packet from a source, wherein the packet includes a first key, wherein the first key is a partition key associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node data processing system can determine which of the partitions of the multi-partitioned network can access the network node data processing system; determine whether the first key matches a second key for the node data processing system; drop the packet without a response to the source if the first key does not match the second key; store information from the packet; and send the information to a selected recipient in response to a selected event.

13. (Previously presented) A node comprising:

receiving means for receiving a packet from a source, wherein the packet includes a first key, wherein the first key is a partition key associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node can determine which of the partitions of the multi-partitioned network can access the network node;

determining means for determining whether the packet is from a partition authorized to access the node by determining whether the first key matches a second key for the node;

dropping means for dropping the packet without a response to the source if the first key does not match the second key;

storing means for storing information from the packet; and

sending means for sending the information to a selected recipient in response to a selected event.

14. (Original) The node of claim 13, wherein the selected event is a request from the recipient for the information.

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15. (Original) The node of claim 13, wherein the selected event is an occurrence of a trap.
16. (Original) The node of claim 13, wherein the selected event is a periodic event.
17. (Original) The node of claim 13 further comprising:
incrementing means for incrementing a counter source if the first key does not match the second key.
18. (Previously presented) The node of claim 17, wherein the selected event occurs when the counter source exceeds a threshold value.
19. (Previously presented) The node of claim 13, wherein the node comprises at least one device private to the node and at least one device shared with at least one of the partitions of the multi-partition network.
20. (Original) The node of claim 13, wherein the information includes at least one of a source local identifier, a destination local identifier, the key value, a global identifier address.
21. (Previously presented) The node of claim 19, wherein the selected recipient is a subnet manager attached to a subnet that is responsible for configuring and managing switches, routers and channel adapters of the subnet.
22. (Previously presented) A node comprising:
receiving means for receiving a packet from a source, wherein the packet includes authentication information, wherein the authentication information is associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node can determine which of the partitions of the multi-partitioned network can access the node;
verifying means for verifying the received authentication information to determine if the packet is from a partition authorized to access the node;
dropping means for dropping the packet without a response to the source if the received authentication information is unverified;

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storing means for storing information from the packet; and
sending means for sending the information to a selected recipient in response to a selected event.

23. (Previously presented) The node of claim 22, wherein the node comprises at least one device private to the node and at least one device shared with at least one of the partitions of the multi-partition network.

24. (Previously presented) A computer program product in a computer readable medium for use in a node for managing attempts to access the node, the computer program product comprising:

first instructions for receiving a packet from a source, wherein the packet includes a first key, wherein the first key is a partition key associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node can determine which of the partitions of the multi-partitioned network can access the network node;

second instructions for determining whether the packet is from a partition authorized to access the node by determining whether the first key matches a second key for the node;

third instructions for dropping the packet without a response to the source if the first key does not match the second key;

fourth instructions for storing information from the packet; and

fifth instructions for sending the information to a selected recipient in response to a selected event.

25. (Previously presented) A computer program product in a computer readable medium for use in a node for reporting access violations, the computer program product comprising:

first instructions for receiving a packet from a source, wherein the packet includes authentication information, wherein the authentication information is associated with a particular partition of a multi-partitioned network having a plurality of partitions, and is used such that the node can determine which of the partitions of the multi-partitioned network can access the node;

second instructions for verifying the received authentication information to determine if the packet is from a partition authorized to access the node;

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third instructions for dropping the packet without a response to the source if the received authentication information is unverified;

fourth instructions for storing information from the packet; and

fifth instructions for sending the information to a selected recipient in response to a selected event.